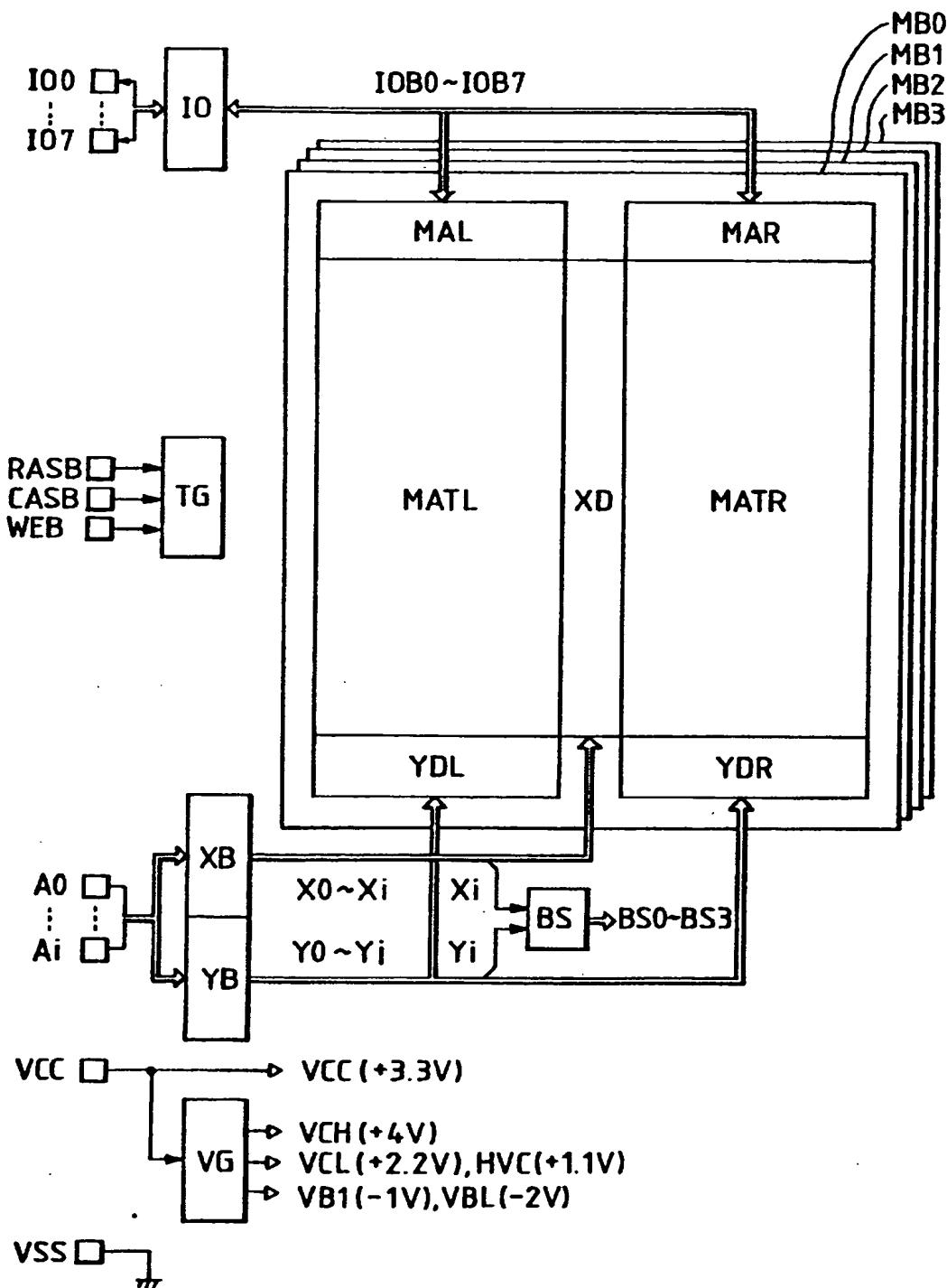
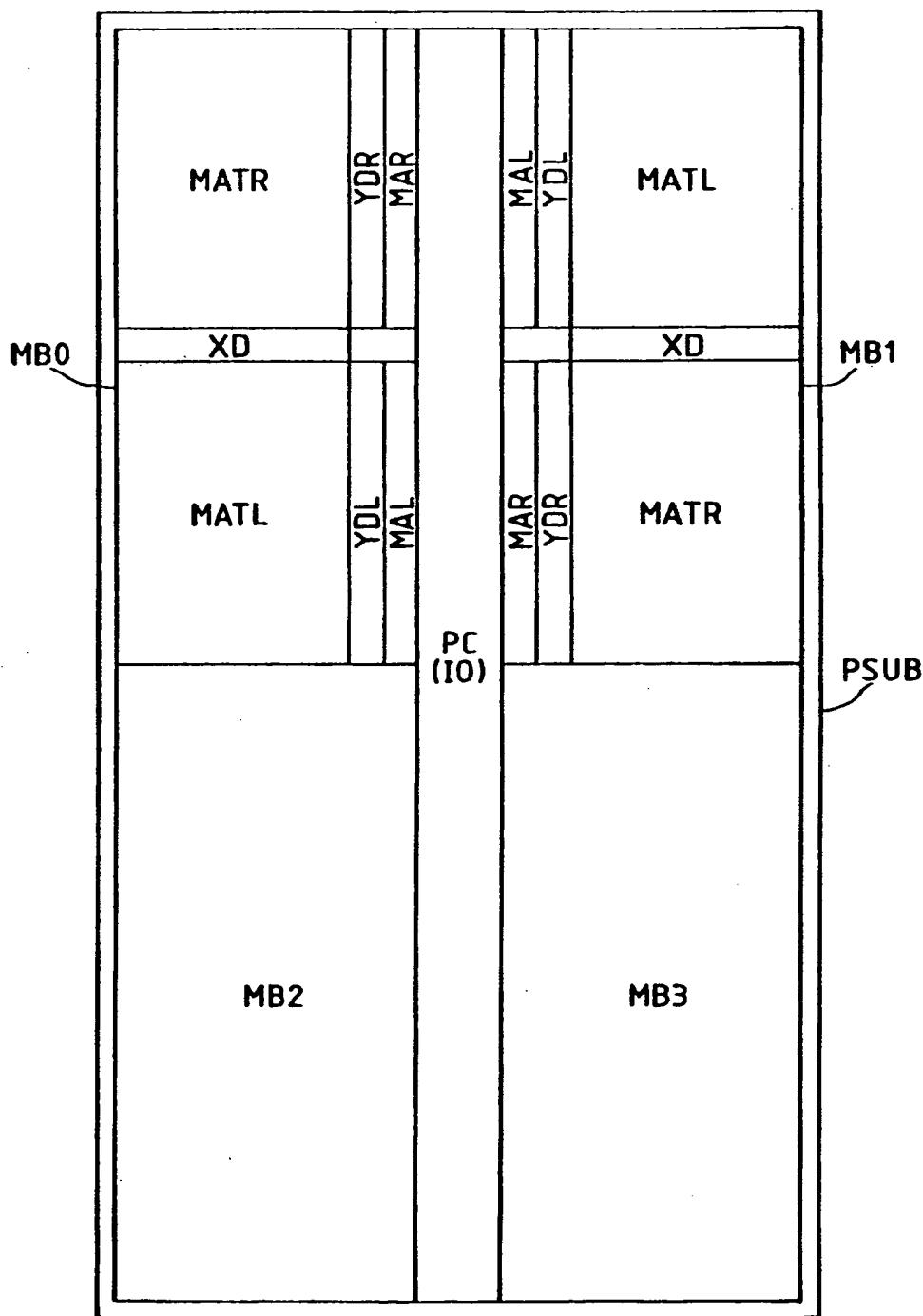


FIG. 1



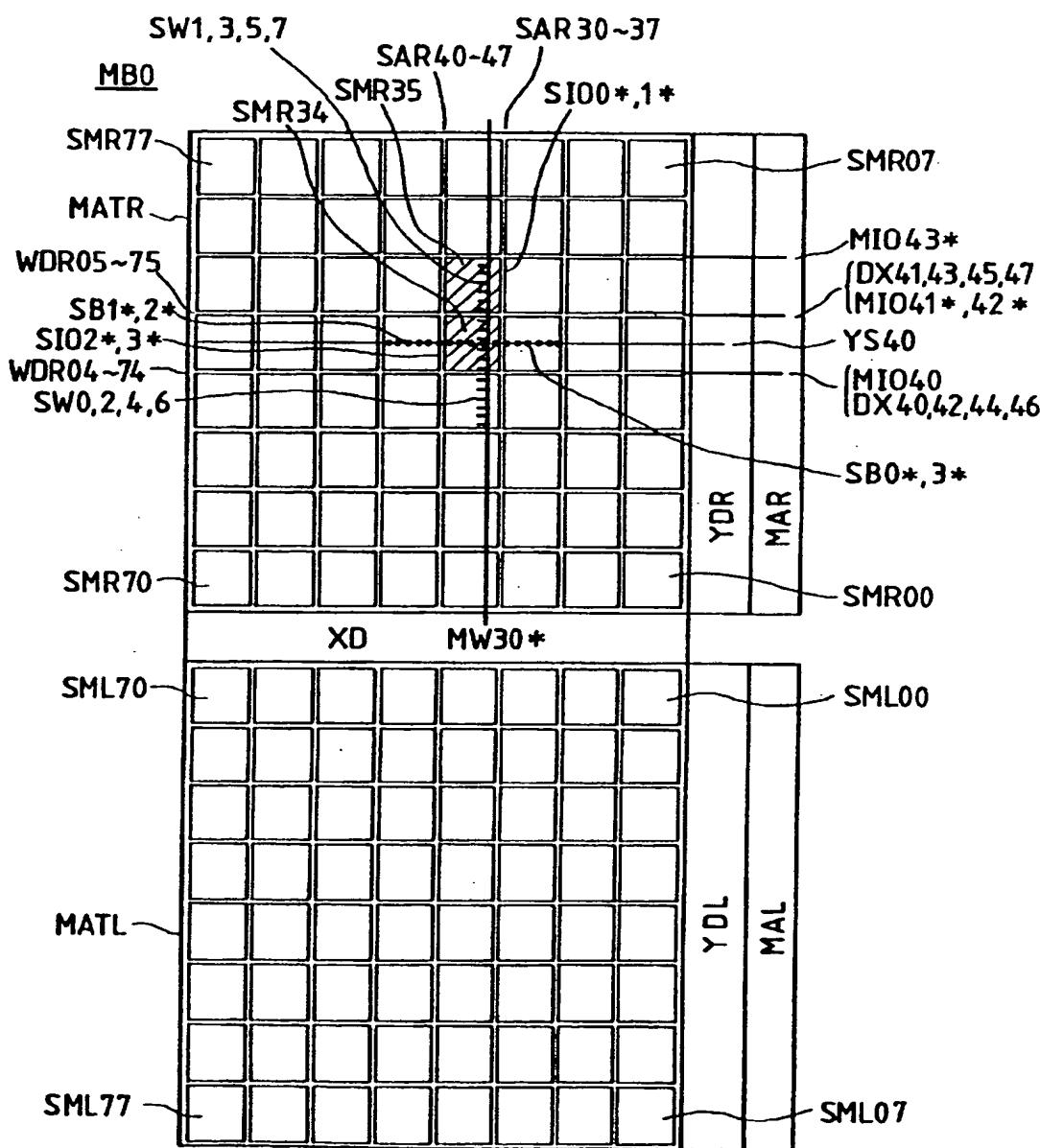
102705-23542650

FIG. 2



T02T07-2354260

FIG. 3



T007007 29544560

FIG. 4

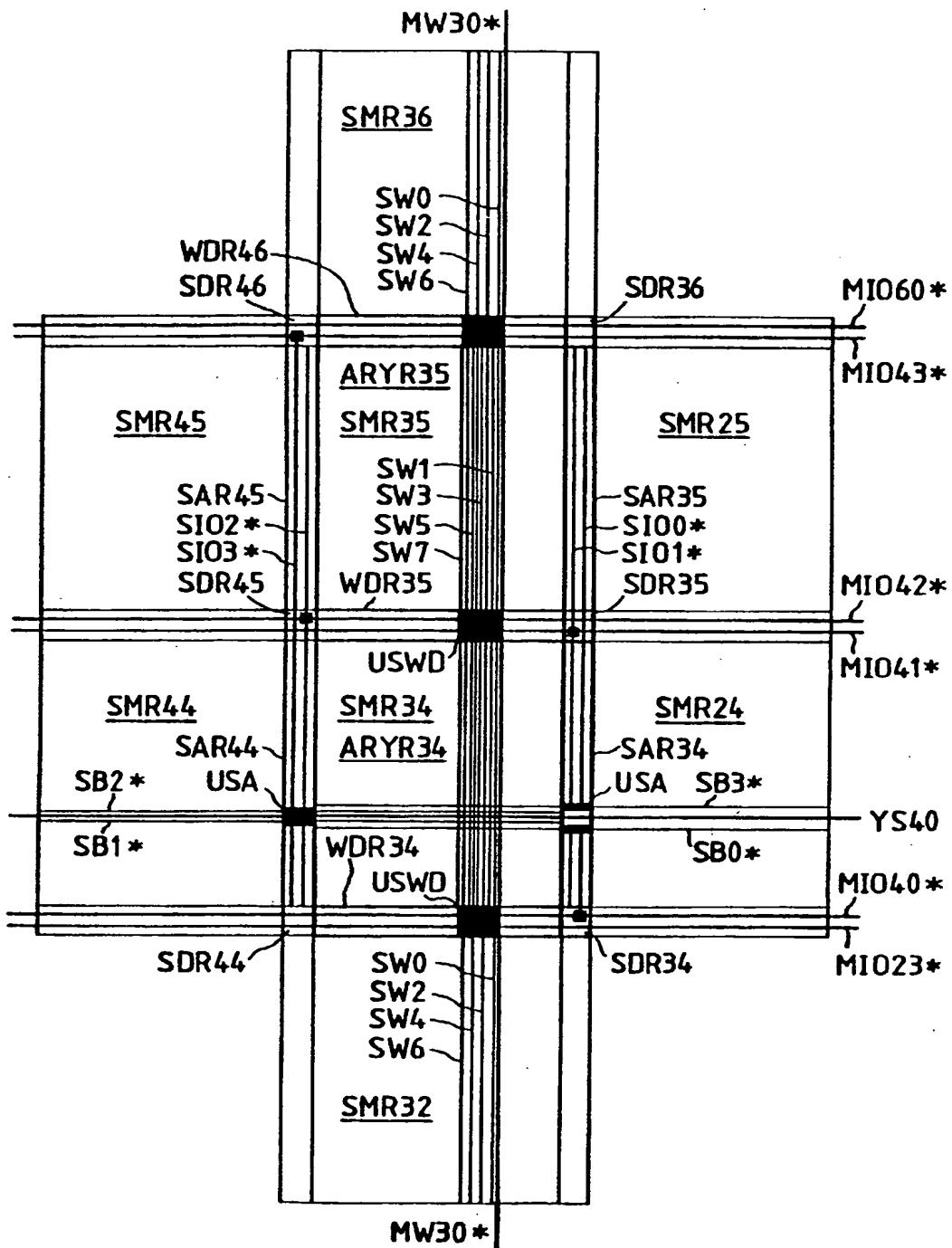


FIG. 5

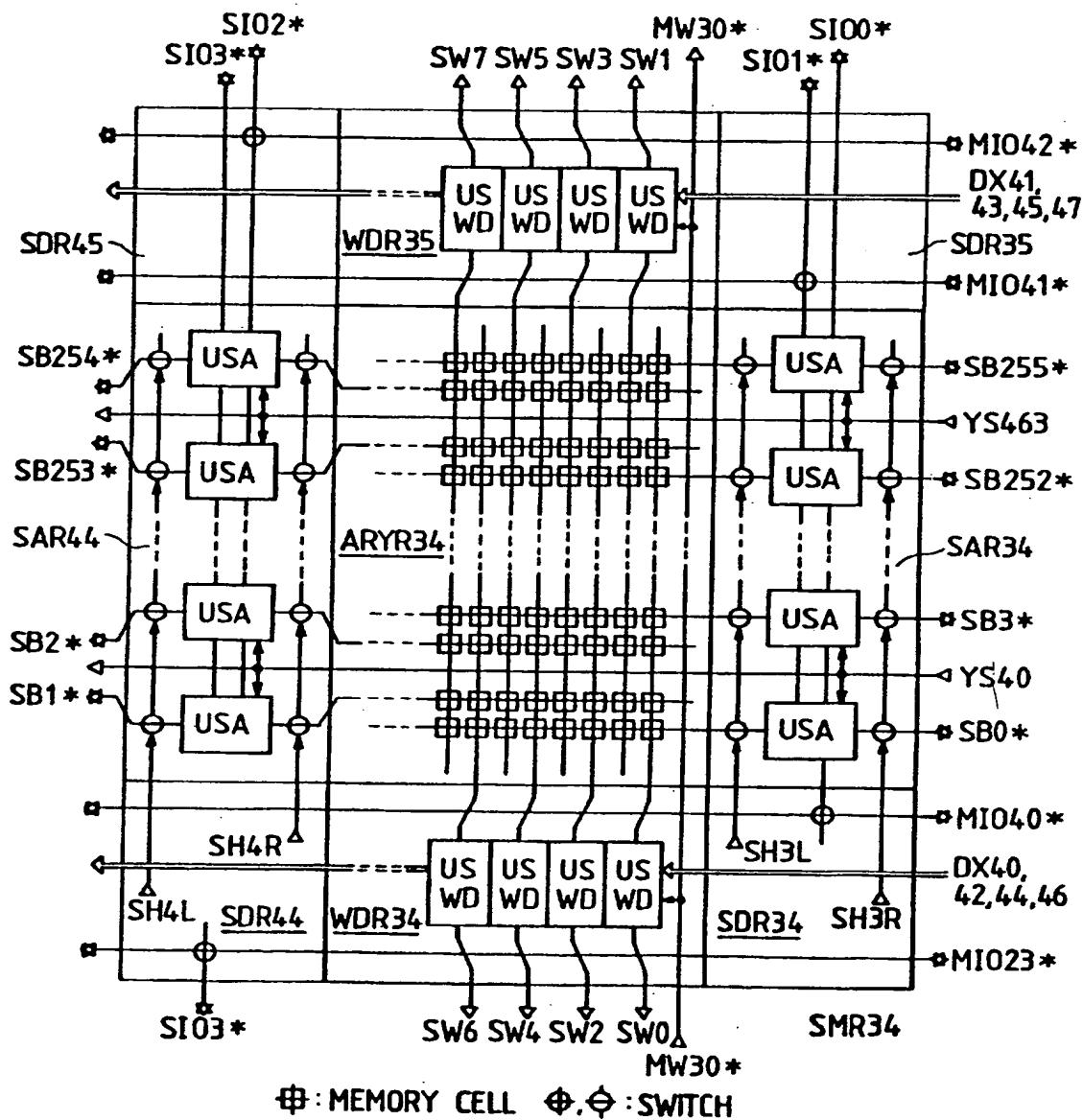


FIG. 6

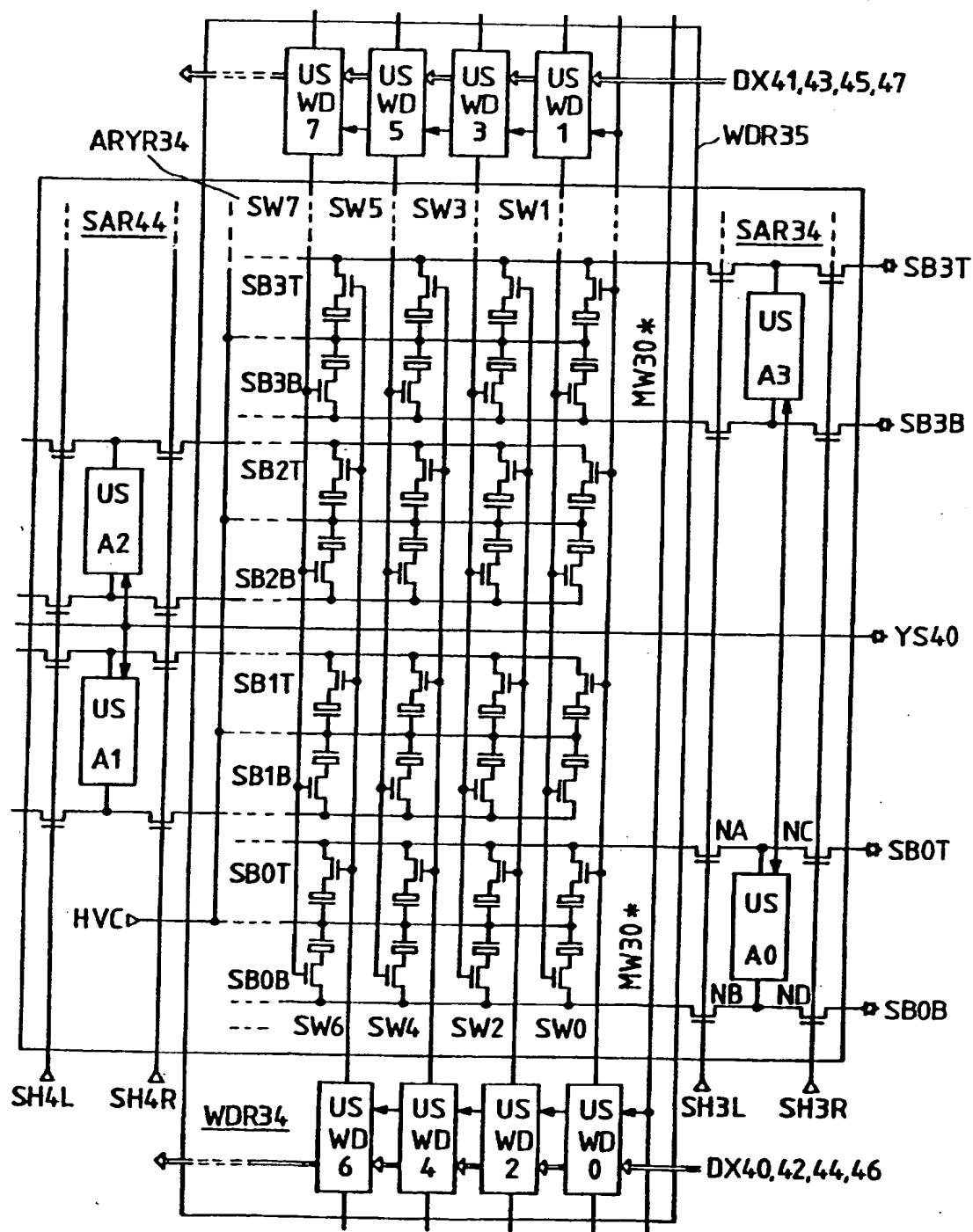


FIG. 7(A)

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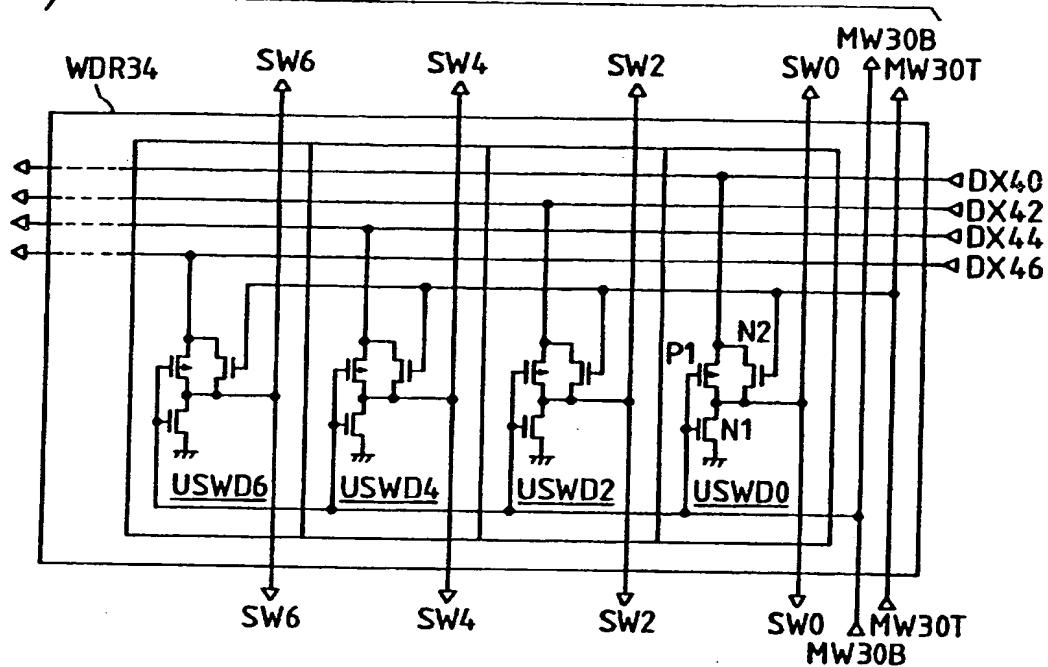


FIG. 7(B)

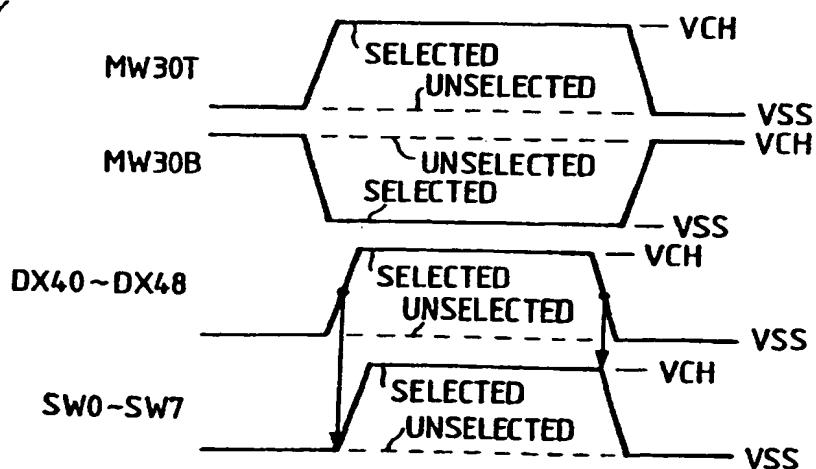


FIG. 8(A)

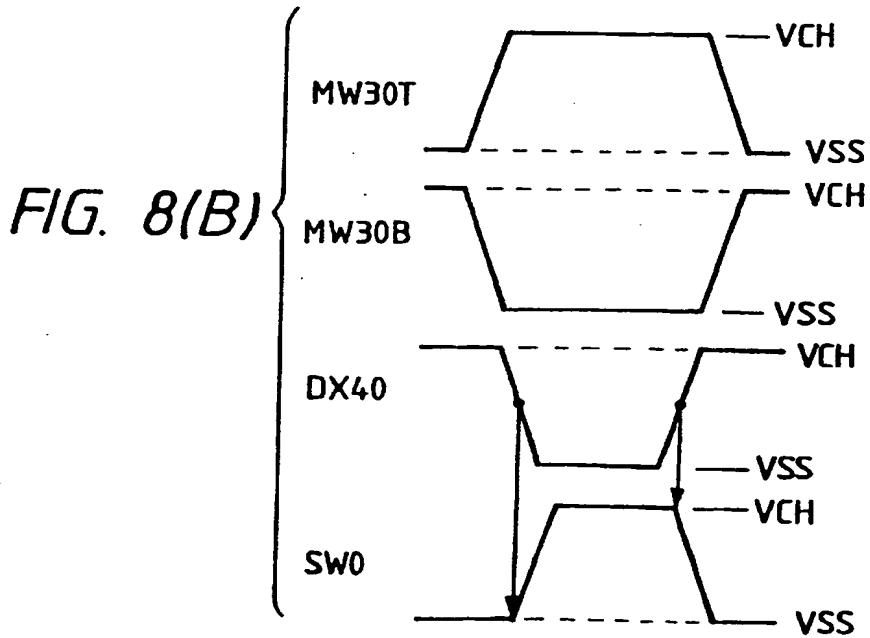
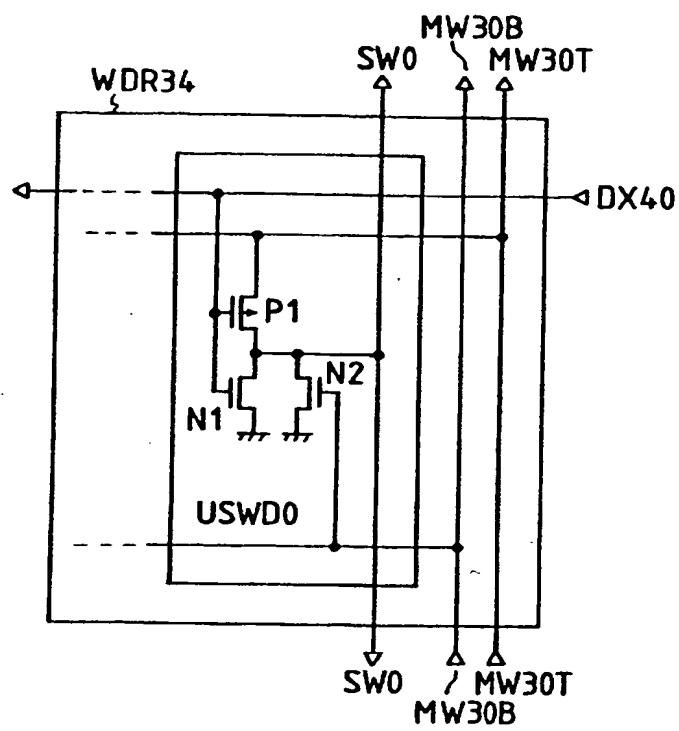


FIG. 9(A)

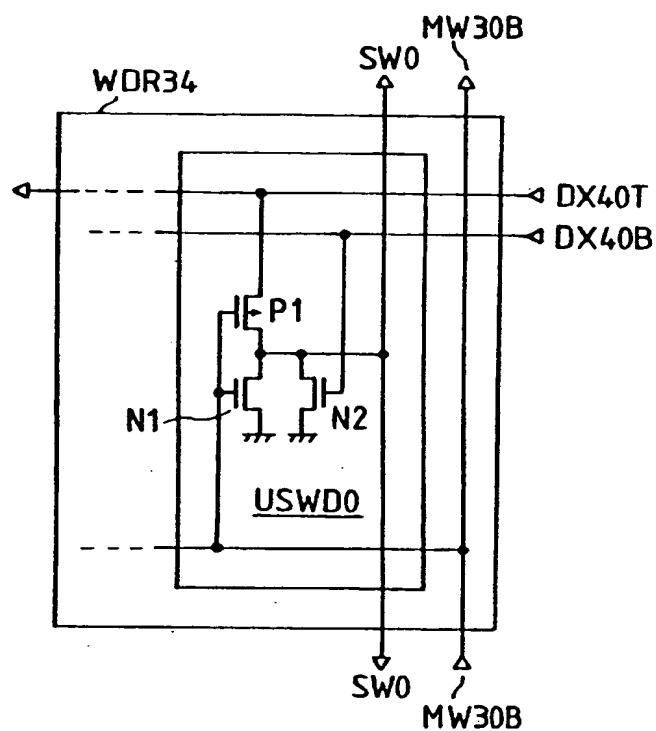


FIG. 9(B)

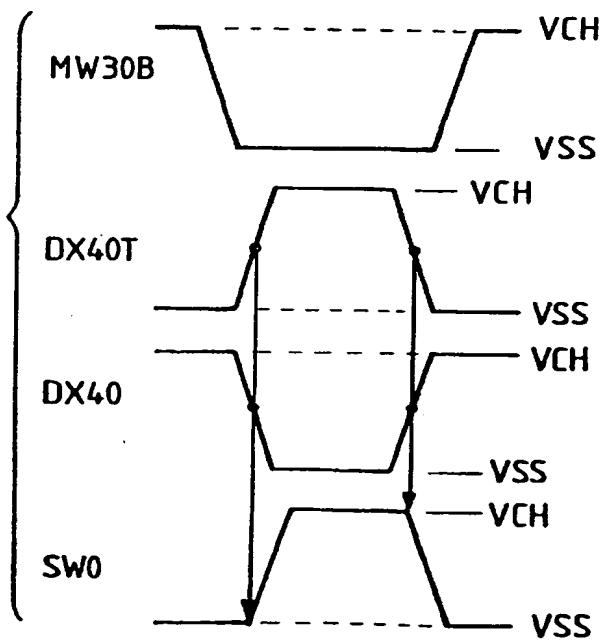
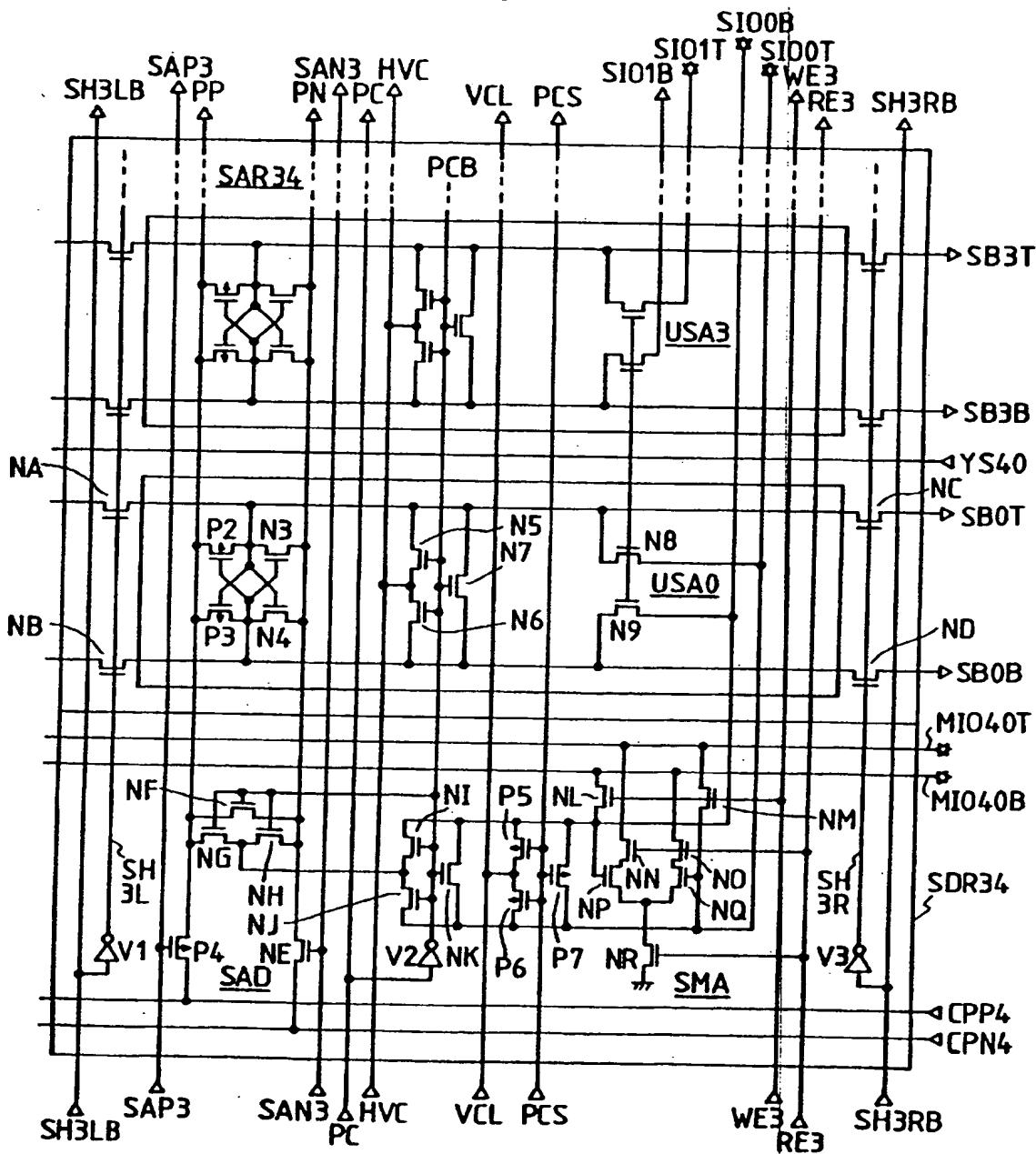


FIGURE = 29642660

FIG. 10



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FIG. 11

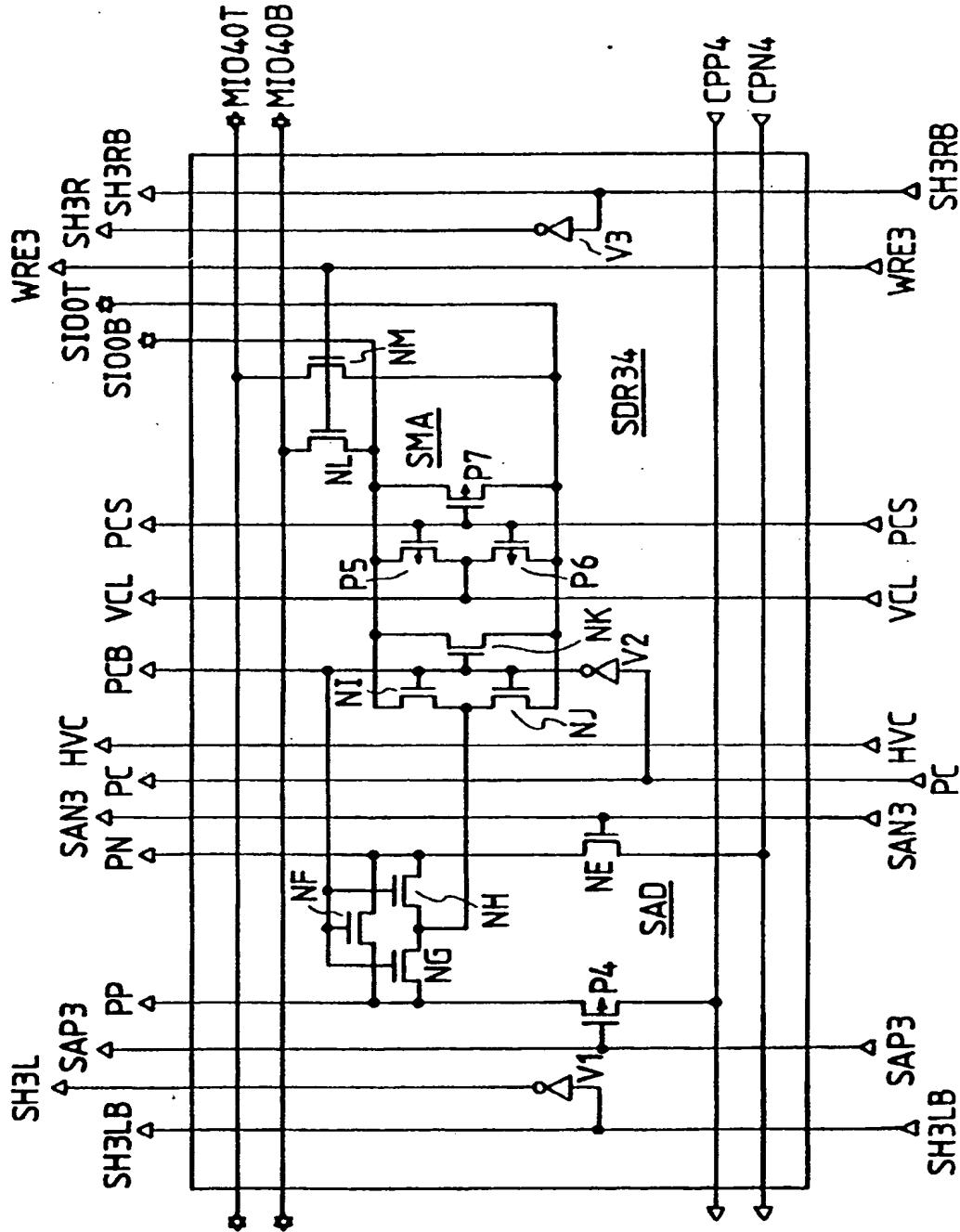
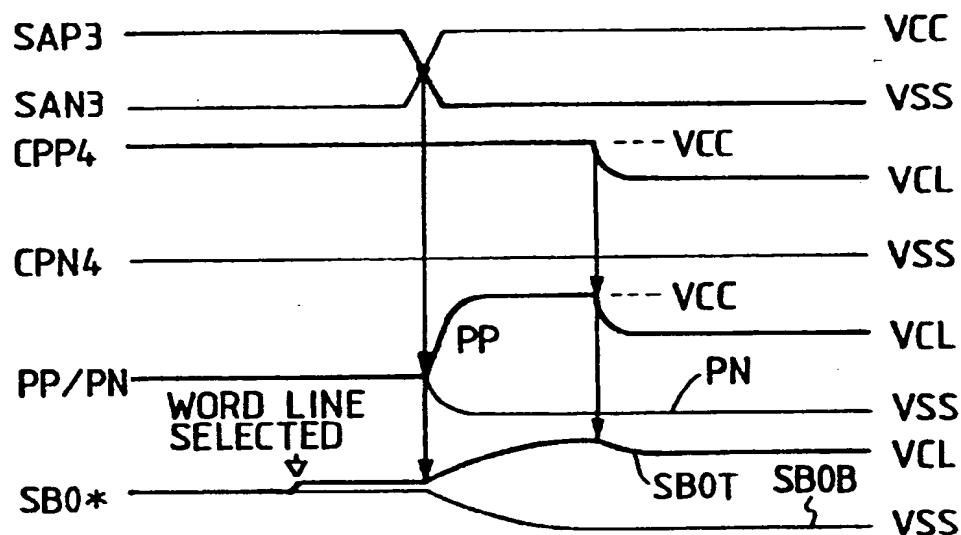


FIG. 12



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FIG. 14

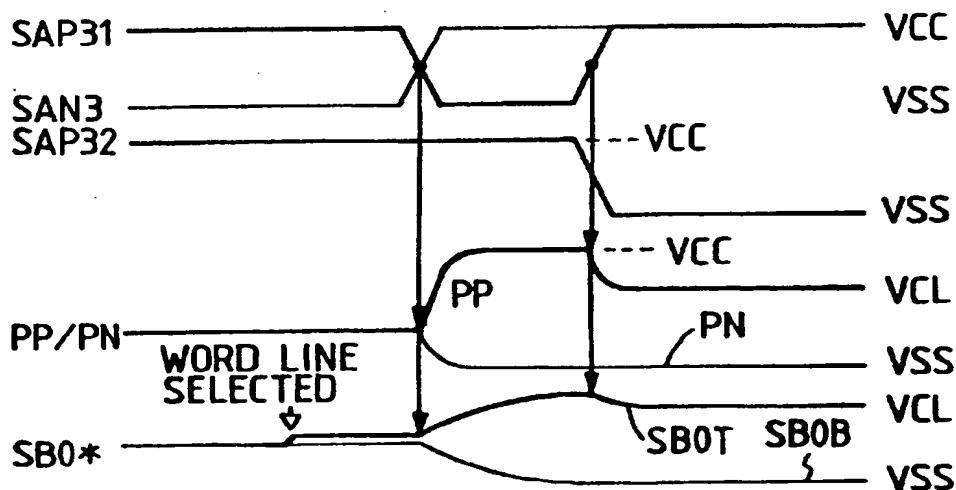


FIG. 13

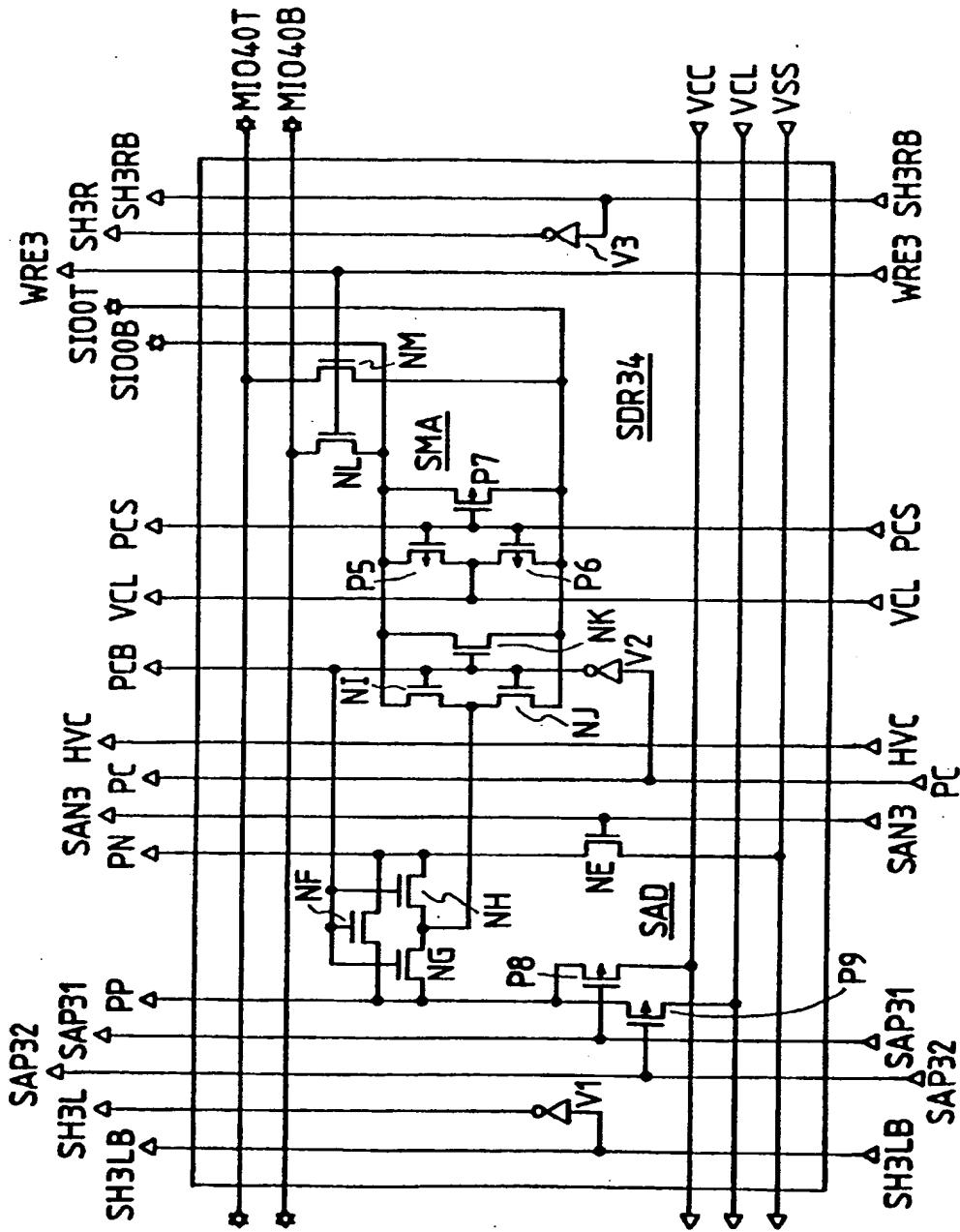
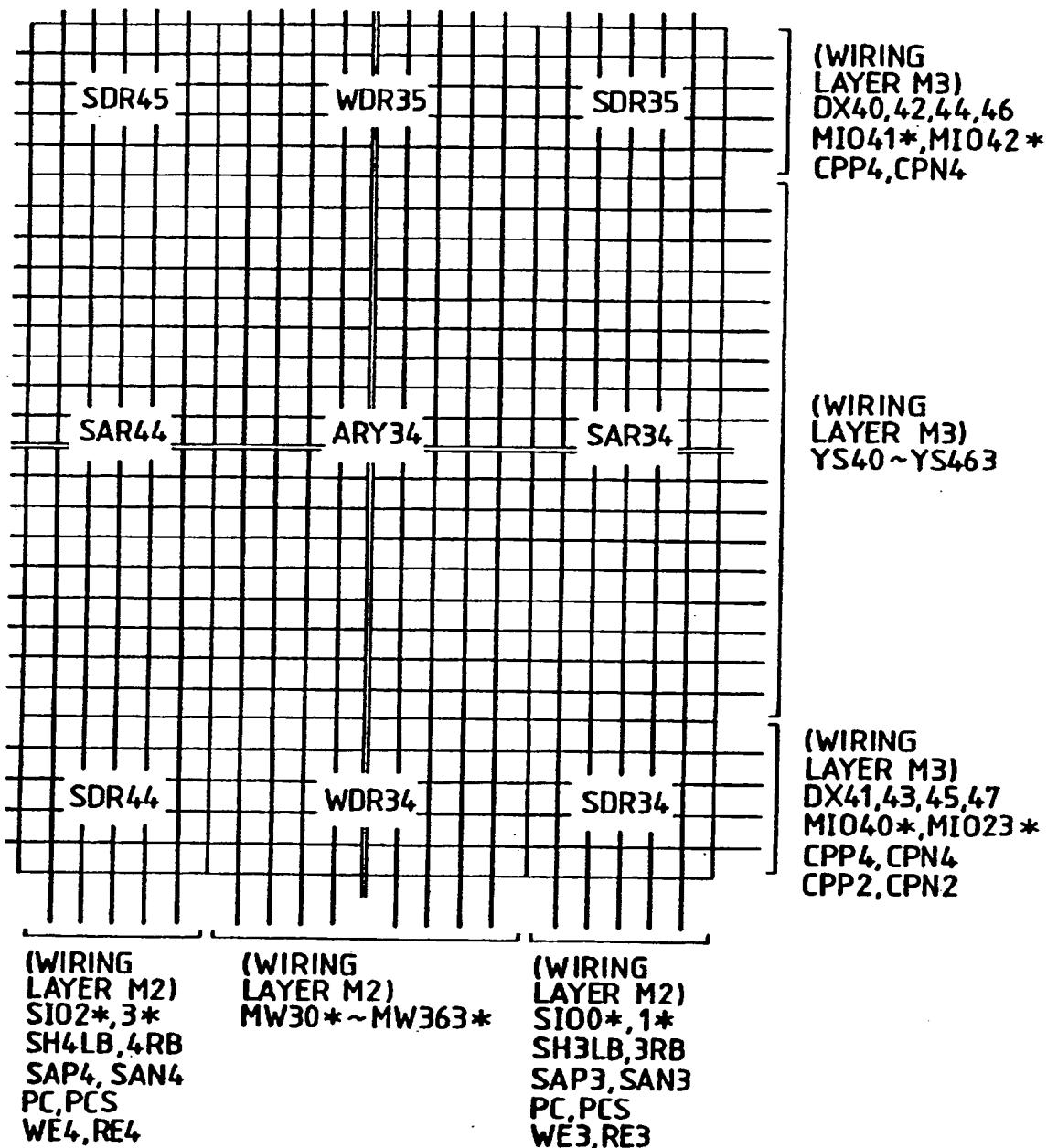


FIG. 15



2010 RELEASE UNDER E.O. 14176

FIG. 16

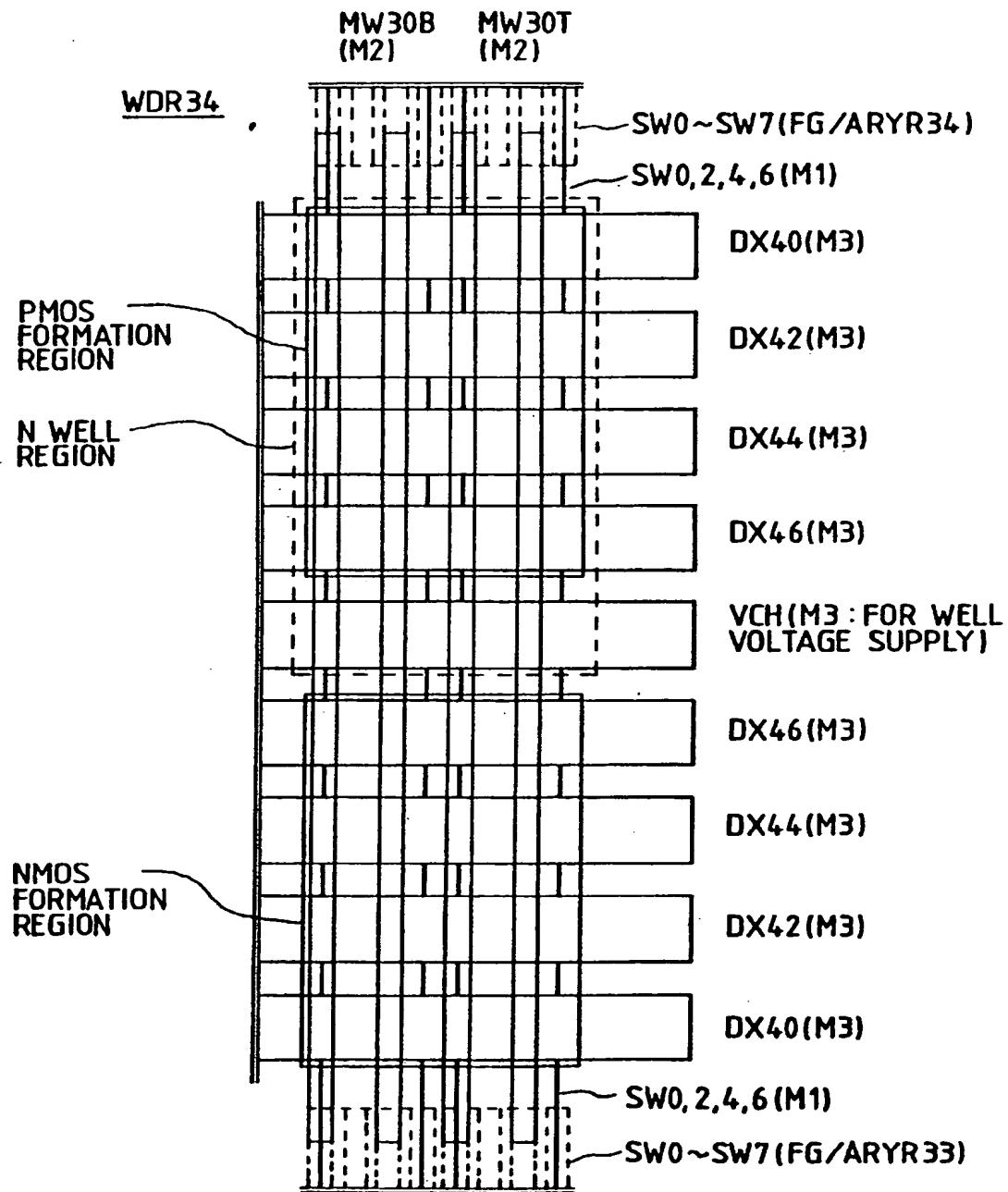
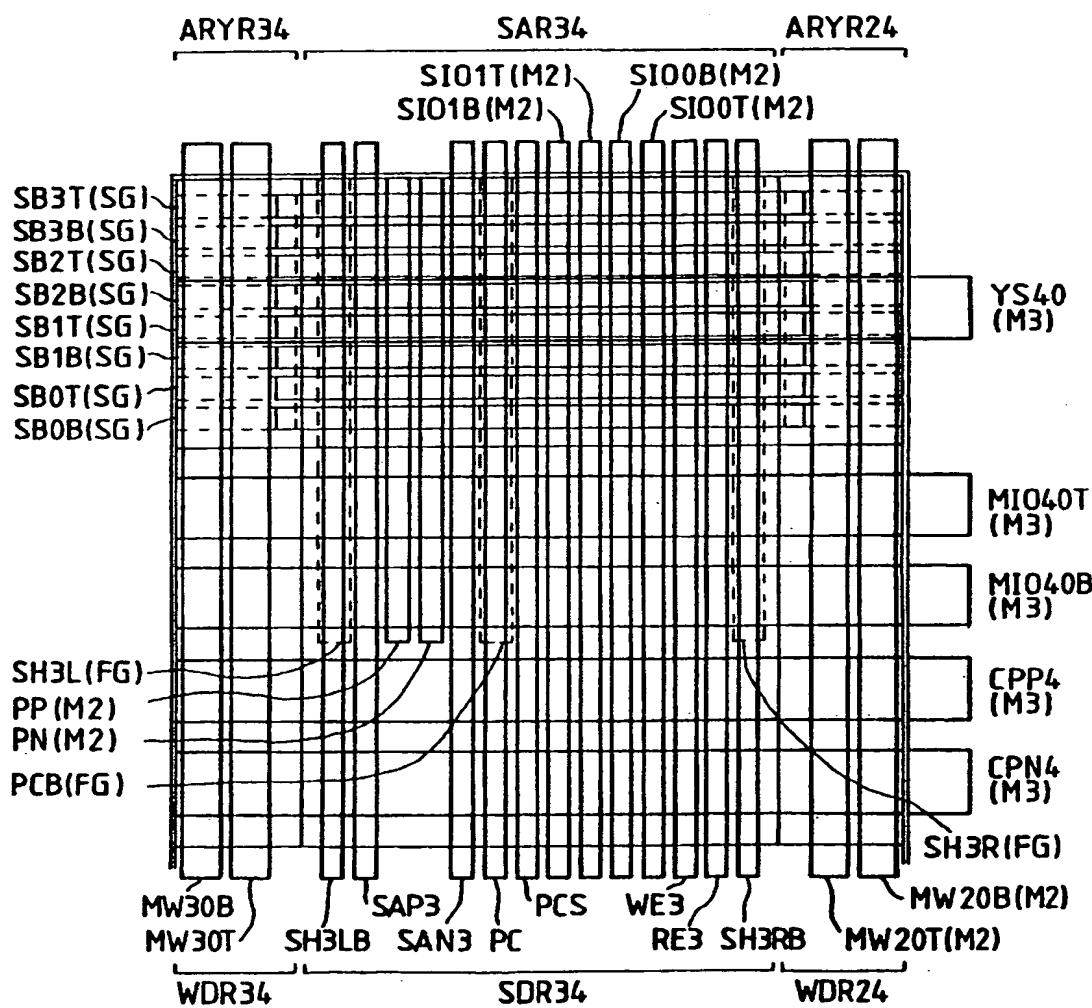
0996429640
TOP SECRET//SI//REL TO USA GOVT ONLY

FIG. 17



2021 RELEASE UNDER E.O. 14176

FIG. 18

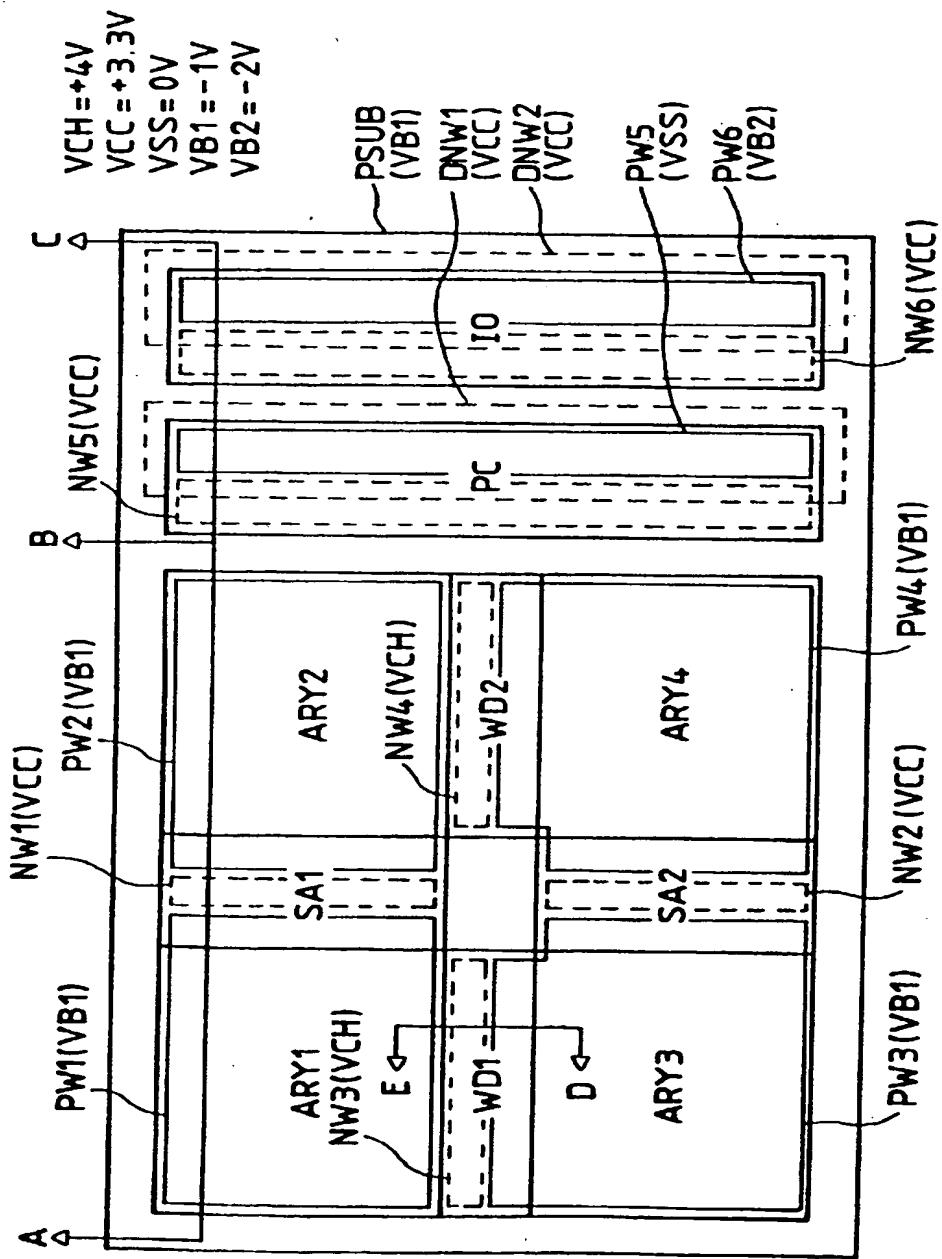


FIG. 19

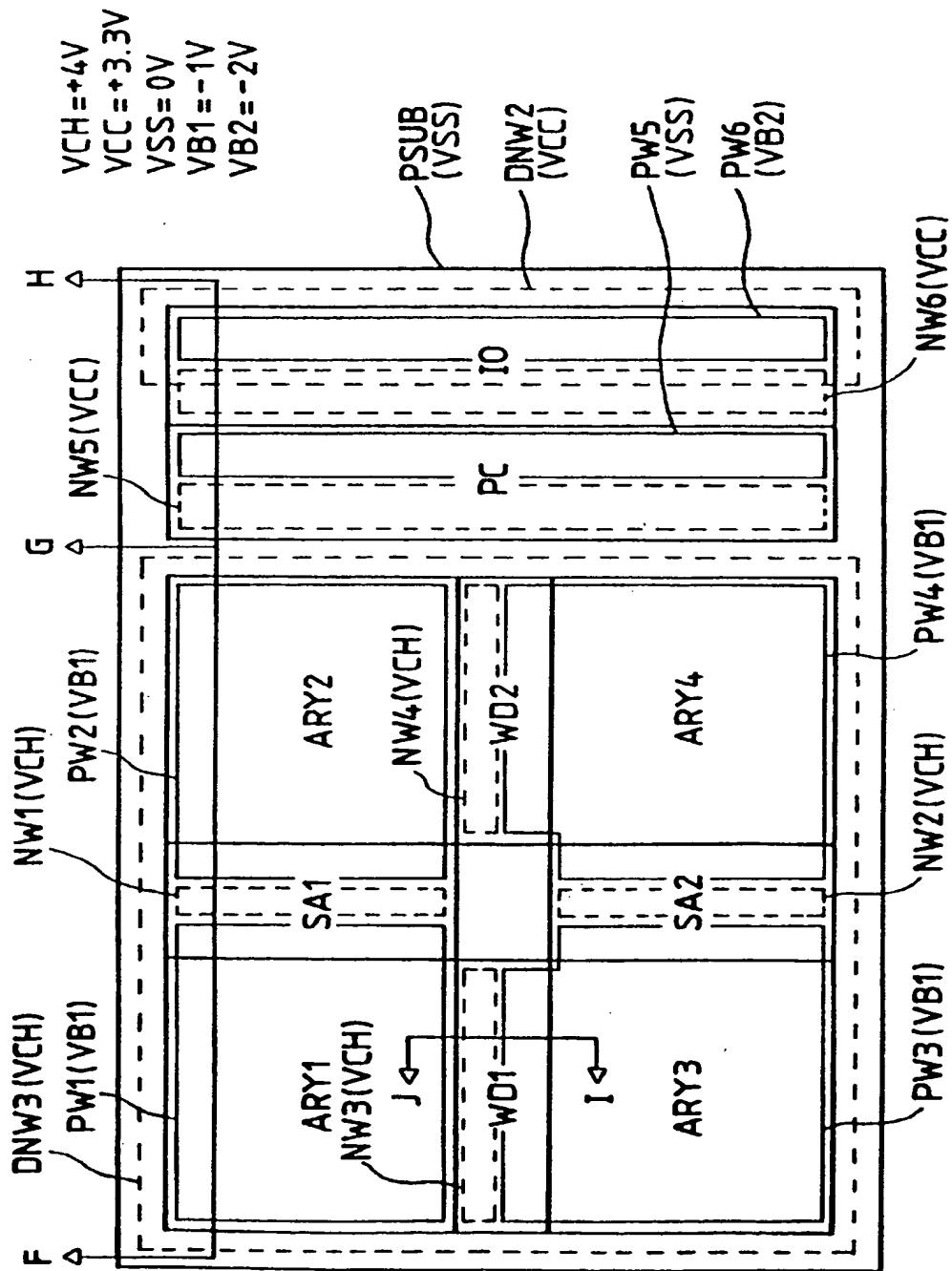


FIG. 20

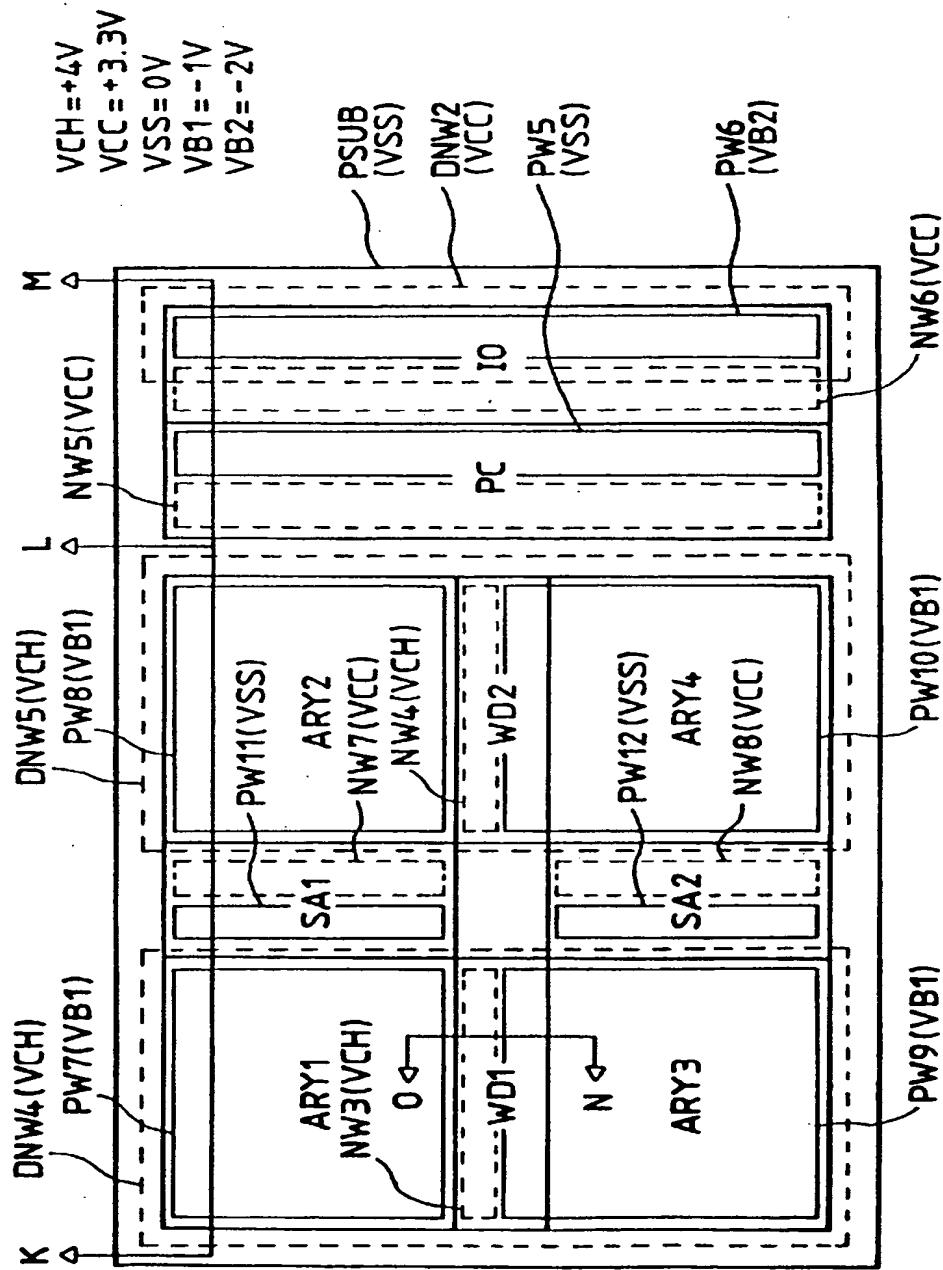
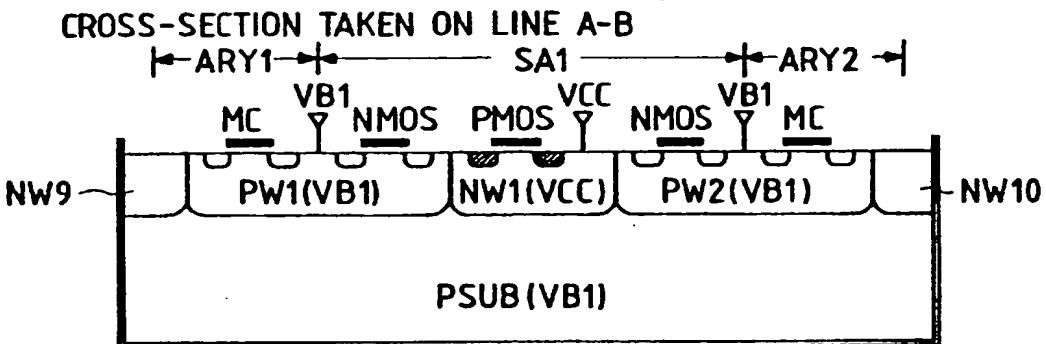
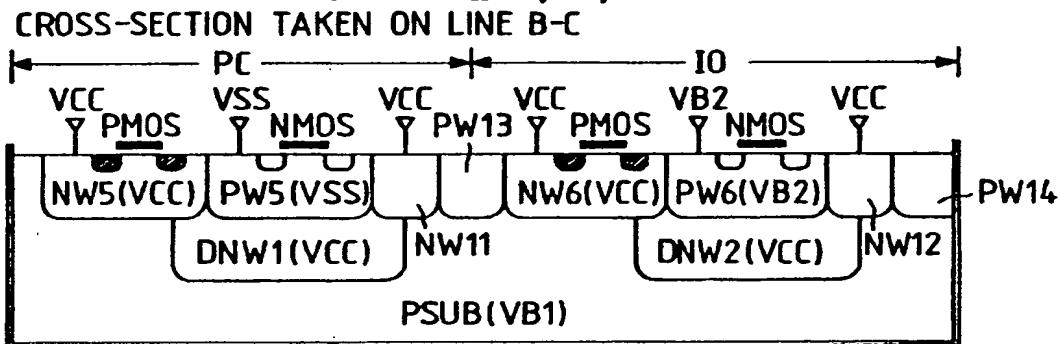
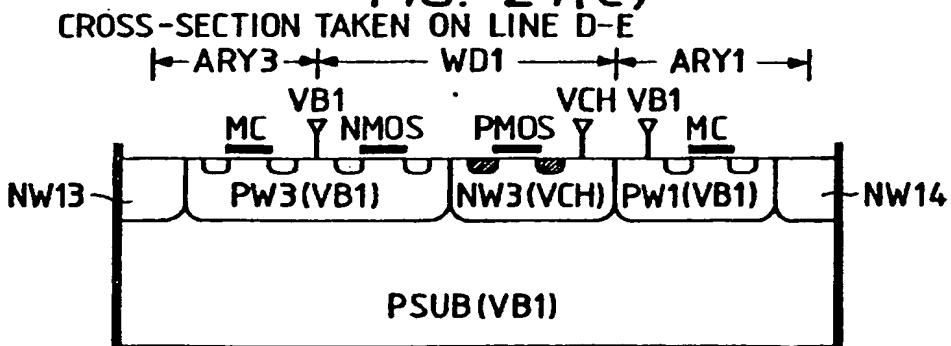


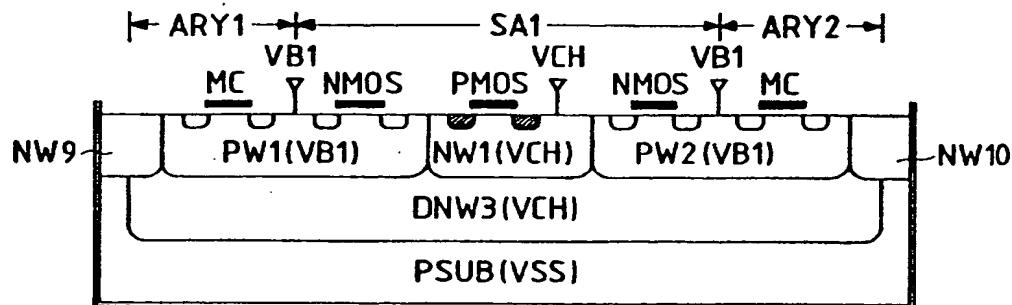
FIG. 21(A)*FIG. 21(B)**FIG. 21(C)*

■ : P⁺ DIFFUSION LAYER □ : N⁺ DIFFUSION LAYER

VCH = +4V VCC = +3.3V VSS = 0V VB1 = -1V VBB = -2V

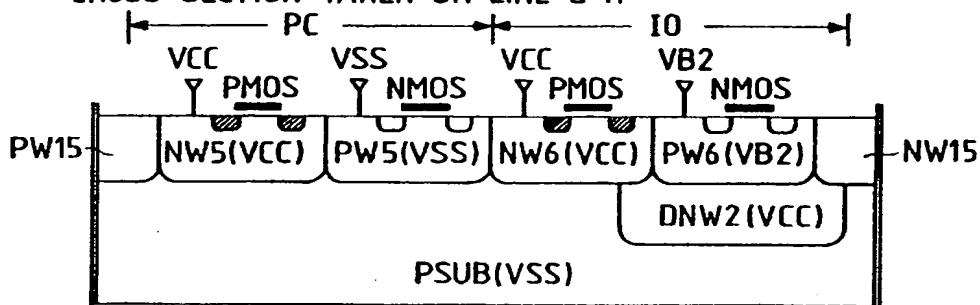
PRINTED IN U.S.A.

FIG. 22(A)
CROSS-SECTION TAKEN ON LINE F-G

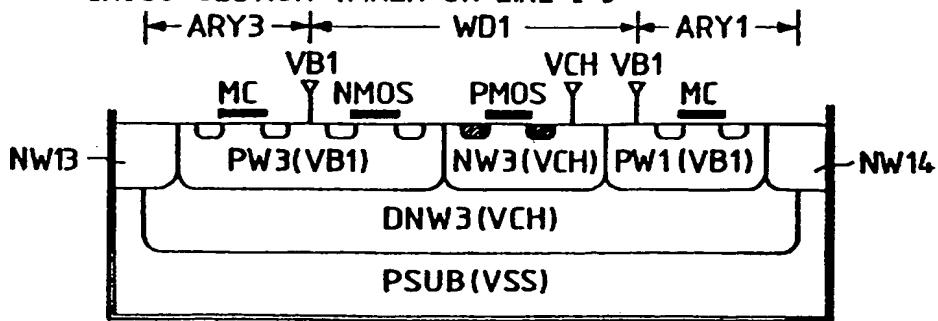


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CROSS-SECTION FIG. 22(B)
TAKEN ON LINE G-H



CROSS-SECTION FIG. 22(C)
TAKEN ON LINE I-J

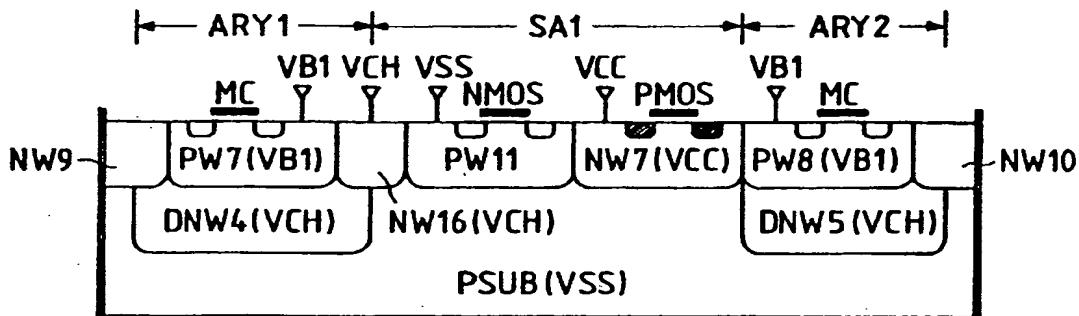


● : P⁺ DIFFUSION LAYER □ : N⁺ DIFFUSION LAYER

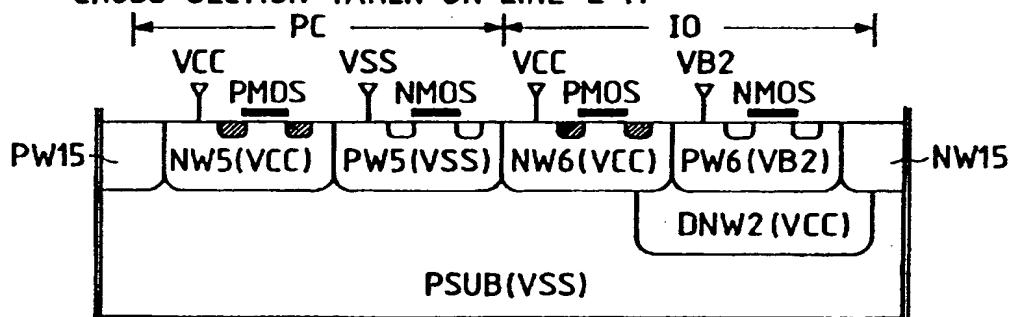
VCH=+4V VCC=+3.3V VSS=0V VB1=-1V VBB=-2V

FIG. 23(A)

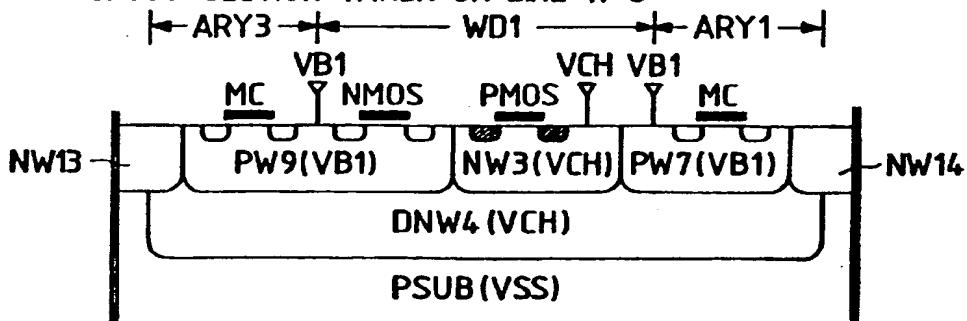
CROSS-SECTION TAKEN ON LINE K-L

*FIG. 23(B)*

CROSS-SECTION TAKEN ON LINE L-M

*FIG. 23(C)*

CROSS-SECTION TAKEN ON LINE N-O



■ : P⁺ DIFFUSION LAYER □ : N⁺ DIFFUSION LAYER

VCH = +4V VCC = +3.3V VSS = 0V VB1 = -1V VBB = -2V